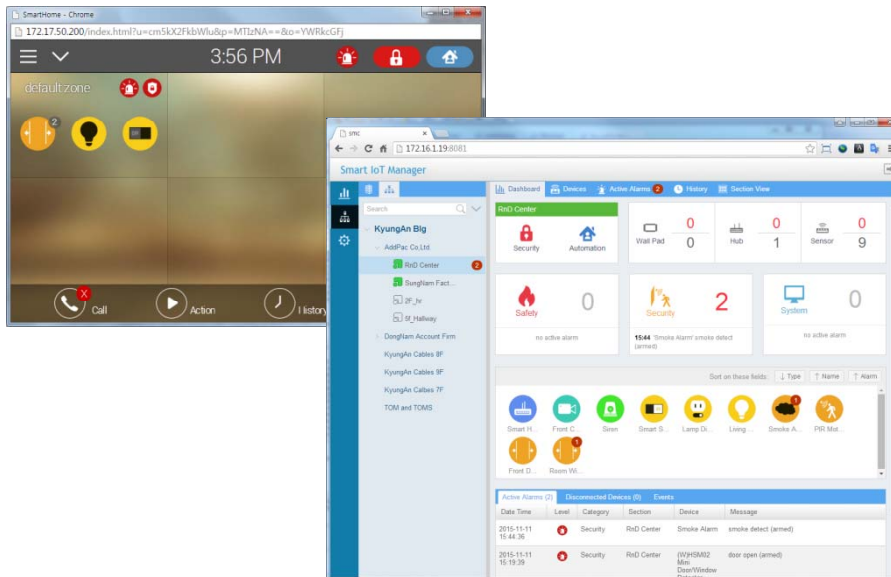


Smart IoT Web Manager



AddPac

AddPac Technology

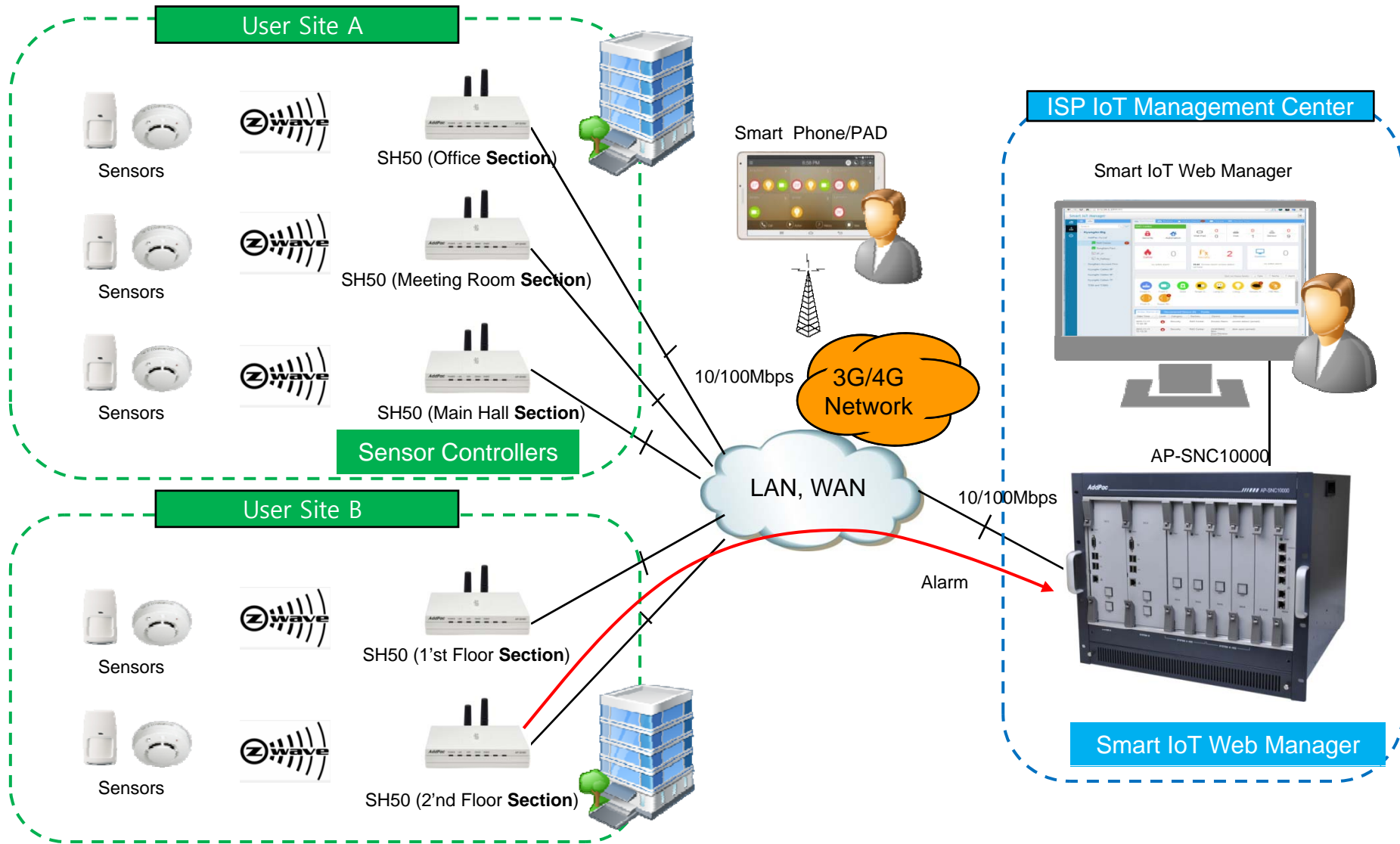
Sales and Marketing

www.addpac.com

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Smart IoT Web Manager Service Diagram





Overview

Key Concepts for Enterprise IoT Solution

- **Enterprise Requirements**

- The things in enterprise are controlled on much more complex environment and configurations than home.
- Network conditions and management requirements are also much more various than home.

- **Our Solution**

- We do support flexible configuration of Sensor Controllers and Managers to meet various enterprise requirements.
- We do support several type of Sensor Controllers and Managers to meet various enterprise environments.
- We do support flexible management authority and access control for center/site operators and users.

Sensor Controller and Manager Role

- **Smart Sensor Controller**
 - It controls his section composed by several sensors.
 - It provides his own smart phone app interface, PC web interface and Wall Pad interface to show sensor status and to control the sensors.
 - It provides discovering sensor for inclusion and configure it.
 - This Sensor Hub integrated with Controller provides robust on network and server fault.
- **Smart IoT Manager**
 - It monitors controller and sensor status for continuous service.
 - It monitors alarm status of section and device by categorizing to safety alarm, security alarm, and system alarm.
 - It controls multiple sections by task with immediately or schedule downloaded to controllers. (TBD.)

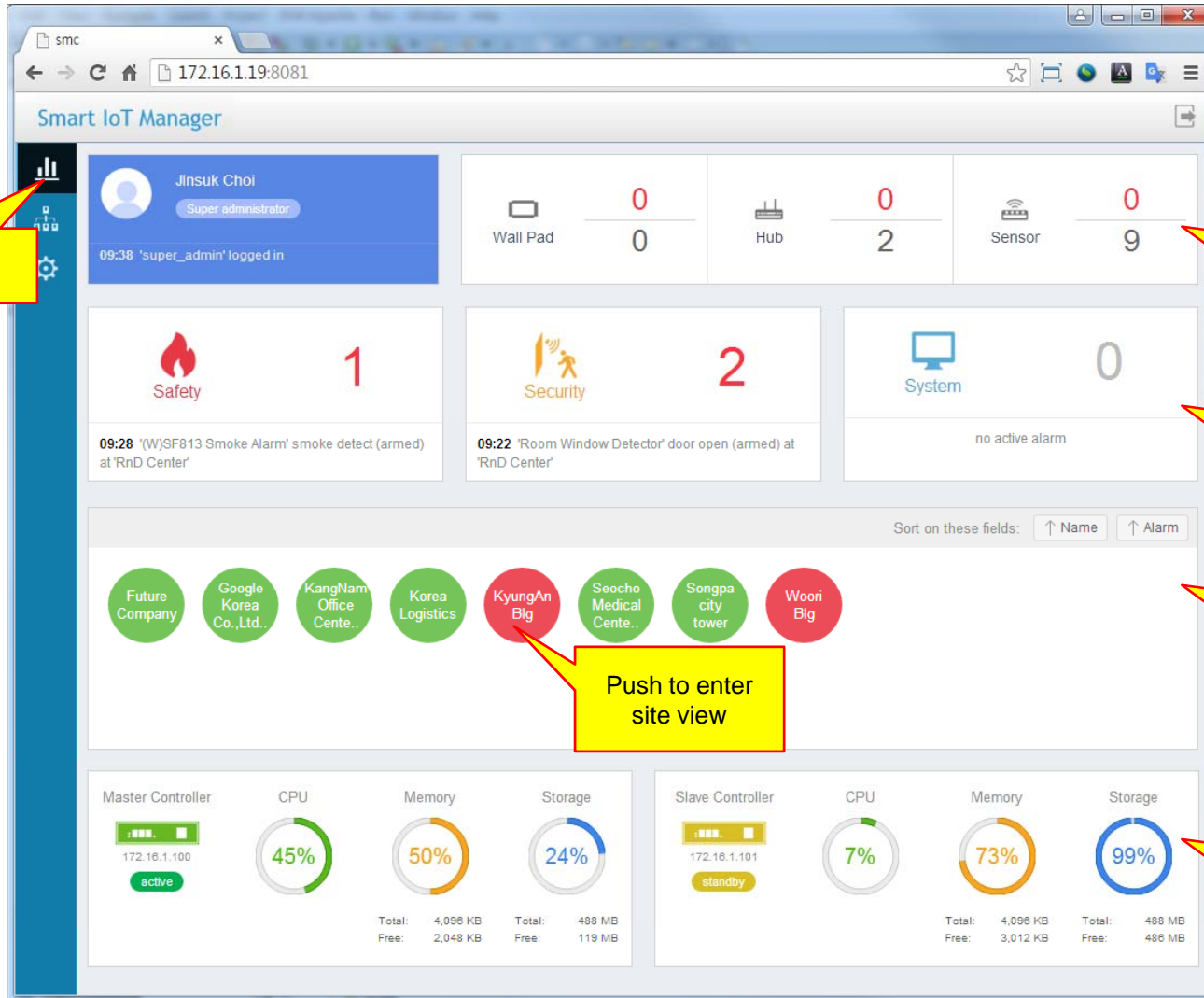
Hierarchical Administrative Domains

- **Super Administrator**
 - He can manage multiple sites and site operators.
- **Site Operator**
 - A site is logically independent administrative domain which can be a building or a set of offices and buildings.
 - A site is composed by multiple sections build up hierarchically.
 - A site operator can manage all sections in his site.
- **Group Operator**
 - A group operator can view and control his sections in a group.
- **User**
 - An user can view and control his section by Wall Pad, PC web and smart phone app.



Manager Web UI

Global Dashboard



Select Global Dashboard

Shows number of abnormal categorized devices

Shows number of active categorized alarms

Shows alarm status of managed sites

Push to enter site view

Shows manager system status

Site Dashboard

The screenshot shows the Smart IoT Manager interface. On the left, a sidebar lists sections under 'KyungAn Blg', including 'RnD Center' (with a red notification badge), 'SungNam Fact...', '2F_hr', and '5f_Hallway'. Below these are other sites like 'DongNam Account Firm', 'KyungAn Cables 8F', 'KyungAn Cables 9F', 'KyungAn Calbee 7F', and 'TOM and TOMS'. A callout 'Select Site View' points to the site selection icon. A callout 'Section Group' points to the 'KyungAn Blg' header, and another 'Section' callout points to the 'RnD Center' item.

The main dashboard area includes a user profile for 'Jinsuk Choi' (Super administrator) and a notification '09:38 'super_admin' logged in'. Below this are three summary cards: 'Wall Pad' (0 abnormal, 0 active), 'Hub' (0 abnormal, 2 active), and 'Sensor' (0 abnormal, 9 active). A callout 'Shows number of abnormal categorized devices in this site' points to these cards. Below are three alarm status cards: 'Safety' (1 active alarm), 'Security' (1 active alarm), and 'System' (0 active alarms). A callout 'Shows number of active categorized alarms in this site' points to these cards. The 'Safety' card shows an alarm at 09:28: 'RnD Center' smoke detect (armed). The 'Security' card shows an alarm at 09:22: 'RnD Center' door open (armed). Below these is a section status bar with four circles: '2F_hr' (grey), '5f_Hallway' (grey), 'RnD Center' (red), and 'SungNam Factory' (green). A callout 'Shows alarm status of sections in this site' points to this bar.

At the bottom, there is a table of active alarms. A callout 'Shows active alarm list' points to this table.

Date Time	Level	Category	Section	Device	Message
2015-11-12 09:28:33	High	Safety	RnD Center	(W)SF813 Smoke Alarm	smoke detect (armed)
2015-11-12 09:22:16	High	Security	RnD Center	Room Window Detector	door open (armed)

Section List

The screenshot shows the 'Smart IoT Manager' web interface. The browser address bar indicates the URL is 172.16.1.19:8081/index.html. The main navigation bar includes 'Dashboard', 'Sections', 'Devices', 'Active Alarms', 'History', and 'Operators'. The left sidebar shows a tree view under 'KyungAn Bldg' with items like 'AddPac Co.,Ltd.', 'DongNam Account Firm', and various floor cables. The main content area displays a table of sections with columns for Name, Group, Device (Wall Pad, Hub, Sensor), Alarm (Safety, Security, System), and Mode (Security, Automation). A yellow callout points to the 'Sections' tab, and another points to the table content.

Name	Group	Device			Alarm			Mode	
		Wall Pad	Hub	Sensor	Safety	Security	System	Security	Automation
1 2F_hr	AddPac Co.,Ltd.	-	-	-	-	-	-	🔒	🏠
2 5f_Hallway	AddPac Co.,Ltd.	-	-	-	-	-	-	🔒	✈️
3 RnD Center	AddPac Co.,Ltd.	-	0/1	0/9	-	2	-	🔒	🏠
4 SungNam Factory	AddPac Co.,Ltd.	-	0/1	-	-	-	-	🔒	🌙

Operator List

Smart IoT Manager

172.16.1.19:8081/index.html

Select operator tab

	Name	ID	Level	Access Group	Email
1	jhkwon	jhkwon	Site operator		
2	kyung an administrator	ka_admin	Site operator		ka@company.com
3	woori bld admin	woori_admin	Site operator		admin@woori.com
4	AddPac Admin.	addpac	Group operator	AddPac Co.,Ltd.	addpac@addpac.com

Shows site operators and group operators

Section Dashboard

The screenshot shows the Smart IoT Manager interface. On the left, a sidebar lists sections under 'KyungAn Bldg', with 'RnD Center' selected and highlighted in blue. The main dashboard area displays a grid of categorized device counts and active alarms. The 'RnD Center' section shows 0 Security, 1 Automation, 0 Wall Pad, 1 Hub, and 9 Sensors. Active alarms include a smoke detect and a door open event. A table at the bottom lists these active alarms with columns for Date Time, Level, Category, Section, Device, and Message.

Select a section

Shows number of abnormal categorized devices in this section

Shows number of active categorized alarms in this section

Shows alarm status of devices in this site

Shows active alarm list

Device List

The screenshot displays the Smart IoT Manager interface. The 'Devices' tab is selected, showing a list of devices under the 'RnD Center' hub. The table includes columns for Name, Model, IP address, Version, Sensor, Alarm, and Disconnected. A yellow callout points to the 'Devices' tab, and another points to the sensor information columns in the table.

Name	Model	IP address	Version	Sensor	Alarm	Disconnected
Smart Hub	SHD50_G2	172.16.50.89:60225	8.50.00T	-	-	-
Front Door Detector	HSM02 Mini Do...			-	-	-
Lamp Dimmer Module	45602 Lamp Di...			-	-	-
Living Room Light	RGBW LED Bulb			-	-	-
PIR Motion Sensor	Ecolink Z-Wave ...			-	-	-
Room Window Detector	HSM02 Mini Do...			-	1	-
Siren	SE812 Siren			-	-	-
Smart Switch	12/22 Smart S...			-	-	-
Smoke Alarm	SF813 Smoke ...			-	1	-

Active Alarms

The screenshot shows the Smart IoT Manager web interface. The browser address bar displays '172.16.1.19:8081'. The main navigation bar includes 'Dashboard', 'Devices', 'Active Alarms' (with a red notification badge '2'), 'History', and 'Section View'. The left sidebar shows a tree view under 'KyungAn Bldg' with 'RnD Center' selected and also marked with a red notification badge '2'. The main content area displays a table of active alarms:

	Date Time	Level	Category	Section	Device	Message
1	2015-11-11 15:44:36	High	Security	RnD Center	Smoke Alarm	smoke detect (armed)
2	2015-11-11 15:19:39	High	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	door open (armed)

At the bottom of the interface, there is a pagination control showing 'Page 1 of 1' and a 'Total: 2' indicator.

Event History

Smart IoT Manager

Dashboard Devices Active Alarms 2 History Section View

Search Latest 1 day Select item

	Date Time	Level	Category	Section	Device	Message	Cleared
1	2015-11-11 15:31:32	Security	RnD Center	Smoke Alarm	Smoke Alarm	alarm (smoke detect (armed)) occurred, id=29	-
2	2015-11-11 15:13:08	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	(W)HSM02 Mini Door/Window Detector	alarm (door open (armed)) occurred, id=28	-
3	2015-11-11 15:08:03	Management	RnD Center			controller registration success, user_id=rnd_admin,ip=172.17.50.200,...	-
4	2015-11-11 14:56:52	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	(W)HSM02 Mini Door/Window Detector	alarm (1699) cleared	system (2015-11-11 14:56:52)
5	2015-11-11 14:56:52	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	(W)HSM02 Mini Door/Window Detector	alarm (1698) cleared	system (2015-11-11 14:56:52)
6	2015-11-11 14:53:20	Management	RnD Center			controller registration success, user_id=rnd_admin,ip=172.17.50.200,...	-
7	2015-11-11 14:27:38	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	(W)HSM02 Mini Door/Window Detector	alarm (door open (armed)) occurred, id=27	-
8	2015-11-11 13:52:17	Management	RnD Center			controller registration success, user_id=rnd_admin,ip=172.17.50.200,...	-

Page 1 of 1 Total: 8

Section View

Select section view

Shows sensor controller web page of this section

Date Time	Level	Category	Section	Device	Message
2015-11-11 15:44:36		Security	RnD Center	Smoke Alarm	smoke detect (armed)
2015-11-11 15:19:39		Security	RnD Center	(W)HSM02 Mini Door/Window Detector	door open (armed)



Thank you!

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Tech. Solution

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